

ABSTRACT

A high-refractive-index optical silicone oil comprising a pentasiloxane having the

5 formula $RMe_2SiO(Me_2SiO)_3SiMe_2R$ wherein Me is methyl, each R is independently a C_8 to C_{12} aralkyl, and the silicone oil has a refractive index of from 1.45 to 1.50 at 25 °C; a method of preparing a high-refractive-index optical silicone oil; a high-refractive-index optical silicone oil mixture comprising a pentasiloxane having the formula

$RMe_2SiO(Me_2SiO)_3SiMe_2R$ wherein Me is methyl, each R is independently a C_8 to C_{12} aralkyl, and a disiloxane having the formula $RMe_2SiOSiMe_2R$ wherein Me and R as defined above and wherein the mixture has a refractive index of from 1.45 to 1.50 at 25 °C; and a

10 method of preparing a high-refractive-index optical silicone oil mixture.